

Old paper

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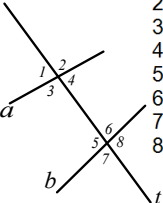
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I. Parallel lines:

A. Parallel lines: coplanar lines that never intersect.

B. Skew lines: non-coplanar lines that never intersect.

C. Transversal: a line that intersects two or more coplanar lines.



1. $\angle 1$ and $\angle 3$	Linear pair
2. $\angle 2$ and $\angle 3$	Vertical angles
3. $\angle 1, \angle 2, \angle 7, \angle 8$	External angles
4. $\angle 3, \angle 4, \angle 5, \angle 6$	Internal angles
5. $\angle 3$ and $\angle 5$	Same-side interior angles
6. $\angle 4$ and $\angle 5$	Alternate interior angles
7. $\angle 2$ and $\angle 7$	Alternate exterior angles
8. $\angle 2$ and $\angle 6$	Corresponding angles

Jul 17-10:41 AM

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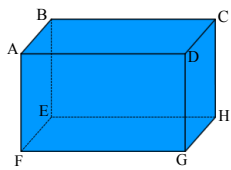
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D) Parallel lines  
coplanar lines that never intersect

E) Skew Lines  
non-coplanar lines that never intersect



Aug 15-8:57 PM

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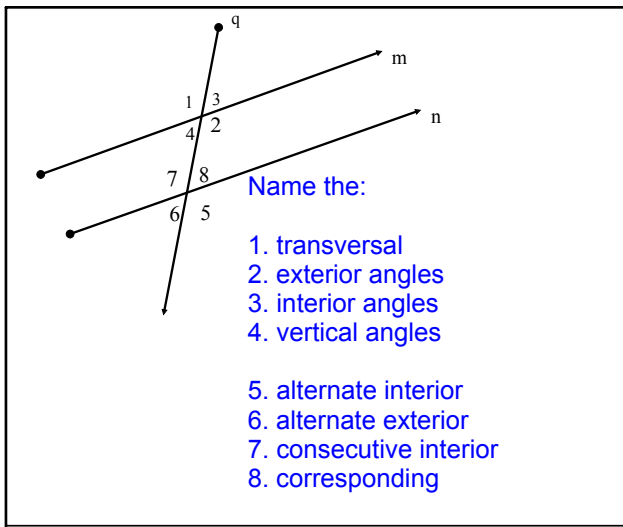
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Oct 8-9:12 AM

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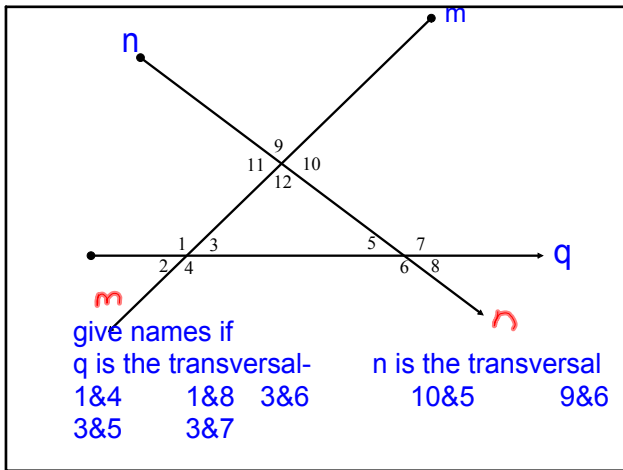
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Sep 22-7:32 AM

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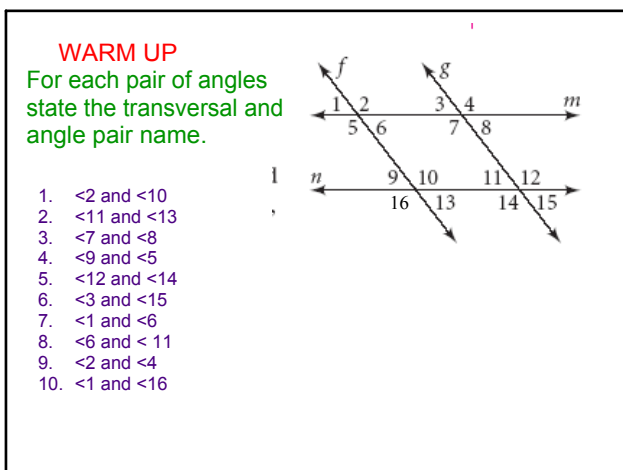
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Oct 8-9:04 AM

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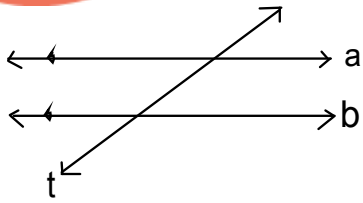
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Measure all angles formed by a, b and t



Nov 3-1:29 PM

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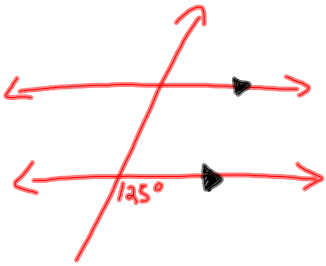
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Feb 25-1:15 PM

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sec 3.2 theorems



Nov 4-12:19 PM

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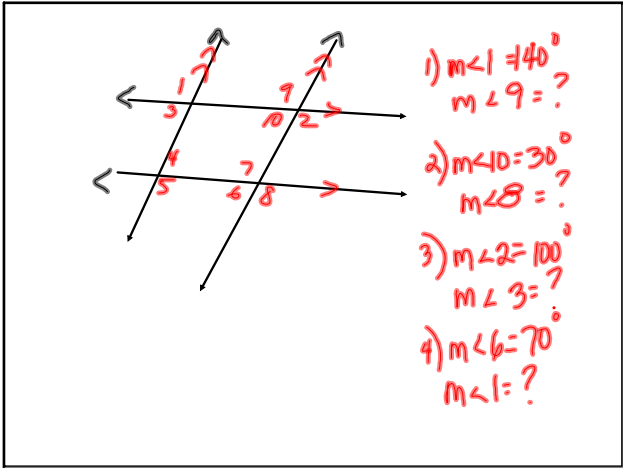
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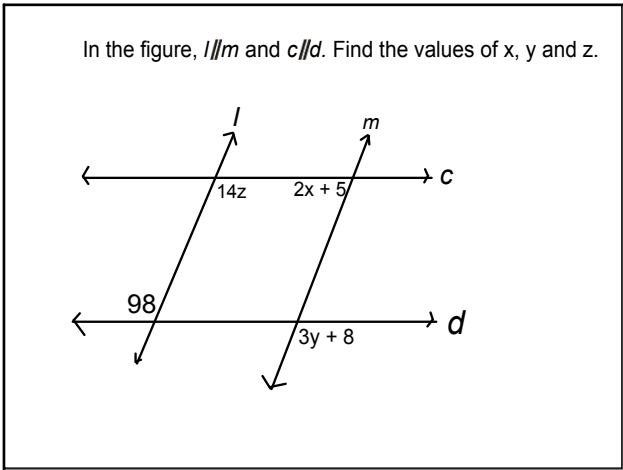
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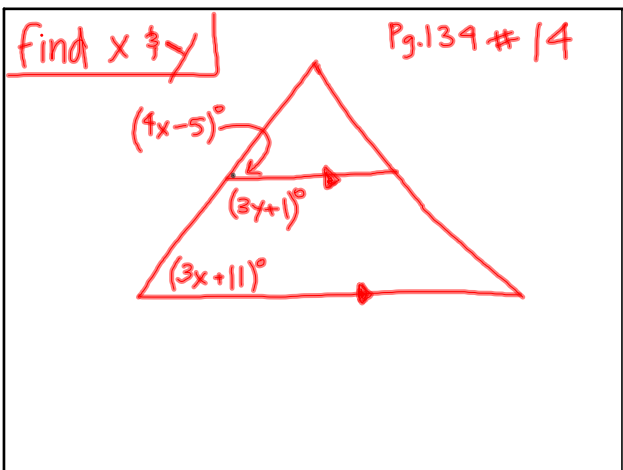
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Feb 25-1:12 PM



Sep 24-2:17 PM



Sep 23-11:09 AM

Solve the systems

1)  $x+y=10$   
 $x-y=8$

2)  $x+3y=19$   
 $x-y=-1$

3)  $x-3y=0$   
 $5x-y=-14$

4)  $2x+3y=-1$   
 $3x+5y=-2$

Feb 16-10:43 AM

①  $x+y=5$   
 $5x-3y=17$

②  $3x-4y=16$   
 $5x+6y=14$

$7134$   $15-19$   
 $38,39$

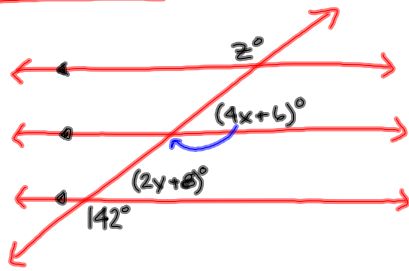
Feb 17-10:02 AM

$x-y=7$   
 $4x-5y=25$

$2x+3y=17$   
 $3x+4y=24$

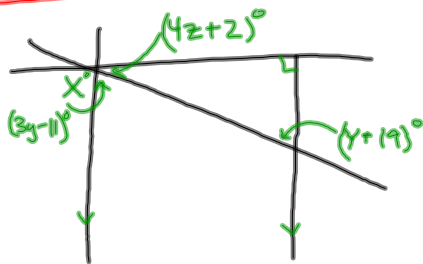
Mar 3-8:47 AM

Pg 134 #38



Sep 26-6:56 AM

Pg 135 #39



Sep 26-7:04 AM

#### V. Coordinate Geometry

A. slope: ratio of vertical change to horizontal change

B. slope-intercept form:  $y = mx + b$



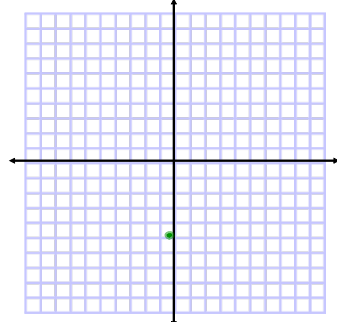
Graph

1.  $y = -2x + 9$

2.  $5x - 6y = 30$

3.  $y = 4$

4.  $x = -1$



Oct 3-7:57 AM

Slope  $\frac{y_2 - y_1}{x_2 - x_1}$

1. Find the slope between (-2,9) and (3 , -1)
2. Find the slope between (3,1) and (-1, 0)
3. Find the slope between (-2,2) and ( 7,2)
4. Find the slope of a line passing through (5,-3) and (5 , 2)

Sep 26-8:19 AM

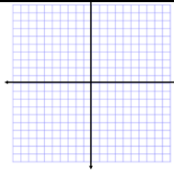
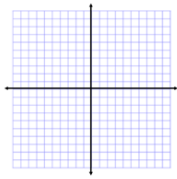
- D. parallel lines: slopes are equal  
E. perpendicular lines: the product of the slopes are -1. slopes are opposite reciprocals

1. Find the slope of a line parallel to  $y = 3x + 13$
2. Find the slope of a line perpendicular to  $2x + 3y = 6$
3. Find the slope of a line parallel to  $y=4$
4. Find the slope of a line perpendicular to  $x = 4$

Jul 19-1:43 PM

Sep 26-8:25 AM

1. Graph a line with slope = -2  
(3, -6)

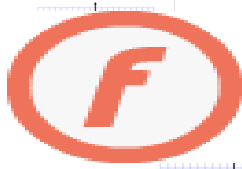
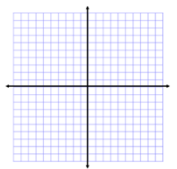


2. Graph a line passing through (2, 4) parallel to AB if A(4, -9) and B(-1, 1)

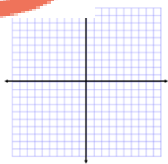
Oct 8-7:44 AM

### Graph the line

2. Perpendicular to  $y = \frac{3}{4}x + 7$  through (-2, 1)



3. parallel to  $y=5$  passing through (-1,4)



Oct 8-7:45 AM

### 3.4 Proving Parallel Lines

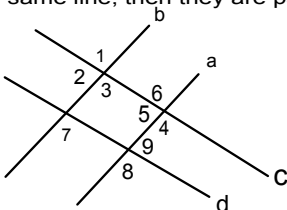
A. If corresponding angles are congruent, then the lines are parallel.

B. If alternate interior angles are congruent, then lines are parallel.

C. If alternate exterior angles are congruent, then lines are parallel.

D. If consecutive interior angles are supplementary, then the lines are parallel.

F. If two lines are perpendicular to the same line, then they are parallel.



Which lines are parallel and why?

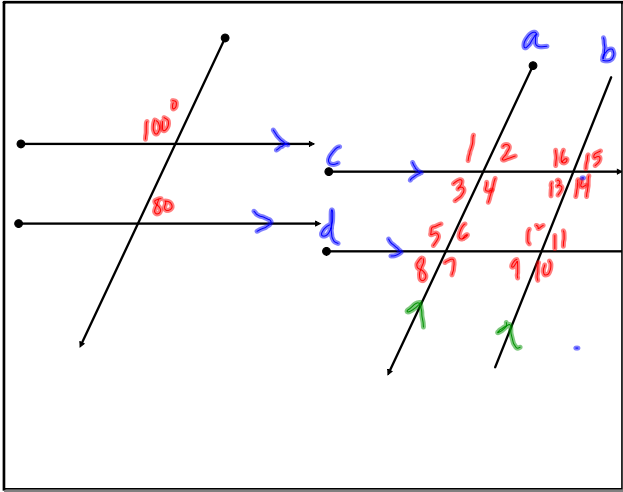
1.  $\angle 2 = \angle 5$

2.  $\angle 1 = \angle 7$

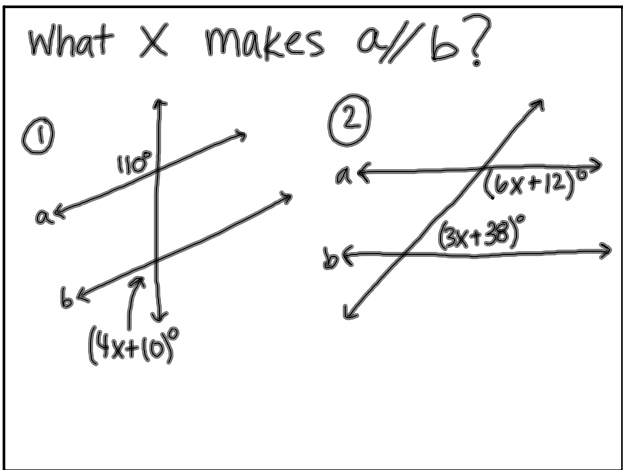
3.  $\angle 3 + \angle 5 = 180$

4.  $\angle 5 = \angle 9$

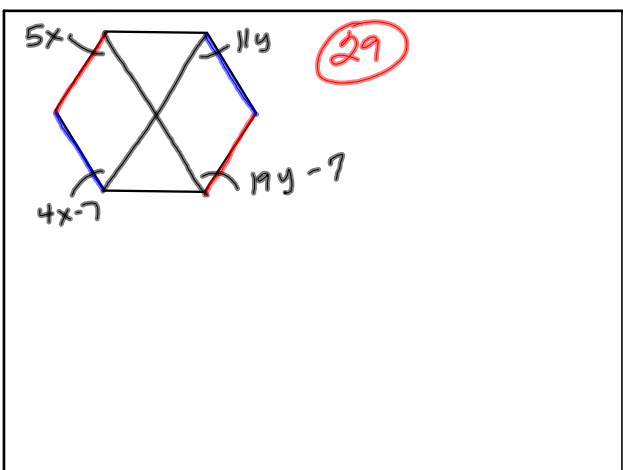
Sep 30-8:40 AM



Sep 29-8:22 AM



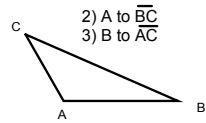
Sep 27-10:54 AM



Sep 26-9:49 AM

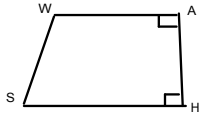
Draw a segment that represents the distance from...

1) A to  $\overline{DC}$

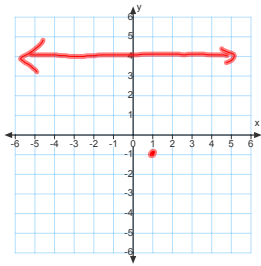


2) A to  $\overline{BC}$   
3) B to  $\overline{AC}$

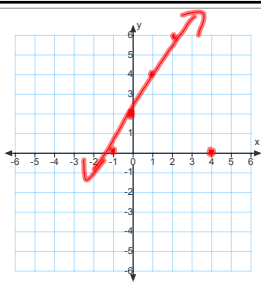
4) W to  $\overline{SH}$   
5) S to  $\overline{AH}$



Mar 1-1:55 PM



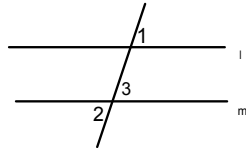
Sep 30-8:11 AM



Sep 30-9:37 AM

Given:  $\angle 1 \cong \angle 2$

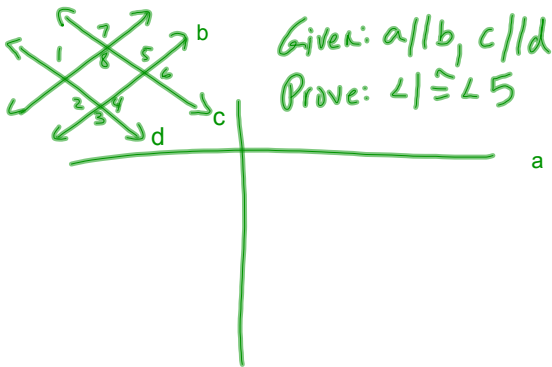
Prove:  $l \parallel m$



Statements

Reasons

Mar 3-12:08 PM



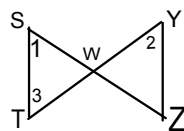
Given:  $a \parallel b, c \parallel d$   
Prove:  $\angle 1 \cong \angle 5$

Sep 30-8:14 AM

Given:  $\angle 2 \cong \angle 1$

$\angle 1 \cong \angle 3$

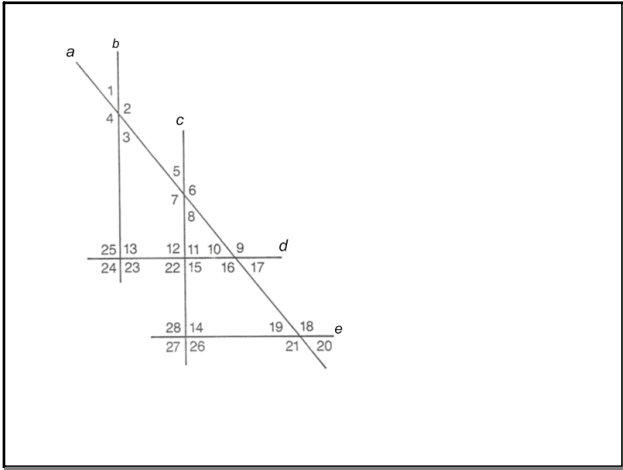
Prove:  $\overline{ST} \parallel \overline{YZ}$



Statements

Reasons

Mar 3-12:20 PM



Oct 10-8:14 AM

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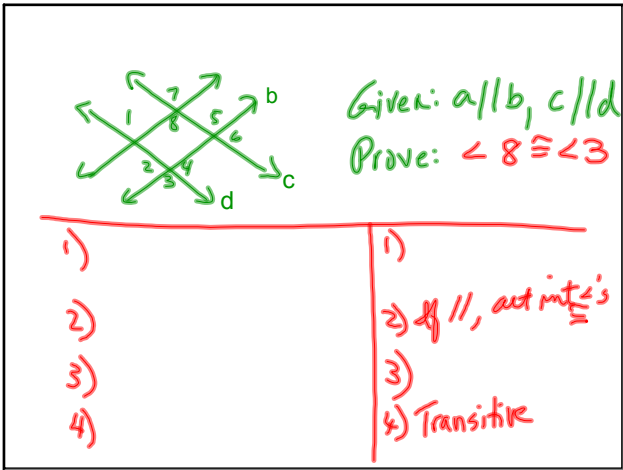
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Sep 30-1:49 PM

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